# SPHERE Secure Public Health Electronic Record Environment



**MCH** 

## Healthiest Wisconsin 2010: A Partnership Plan to Improve the Health of the Public

- 11 Health Priorities
- 5 Infrastructure Priorities
  - Integrated electronic data and information systems
    - PHIN Public Health Information Network System of Systems
    - SPHERE is one of the systems

#### SPHERE Status

- Statewide WI Line Web Training
  - Training and Materials Posted on HAN
- System Roll Out: Aug-Oct
  - 125 Organizations: LHD's, Tribal Agencies & Private Non Profit Agencies
    - 56 agencies have SPHERE access
    - 40 agencies in process of converting old data into SPHERE
    - Others in "limbo"

### SPHERE Design

- Lead Team with State, Regional and Local Representation
  - Defined Business Requirements for SPHERE
    - SPHERE is a Public Health System for local/state documentation of
      - Individual/Household Activities
      - Community Activities
      - System Activities

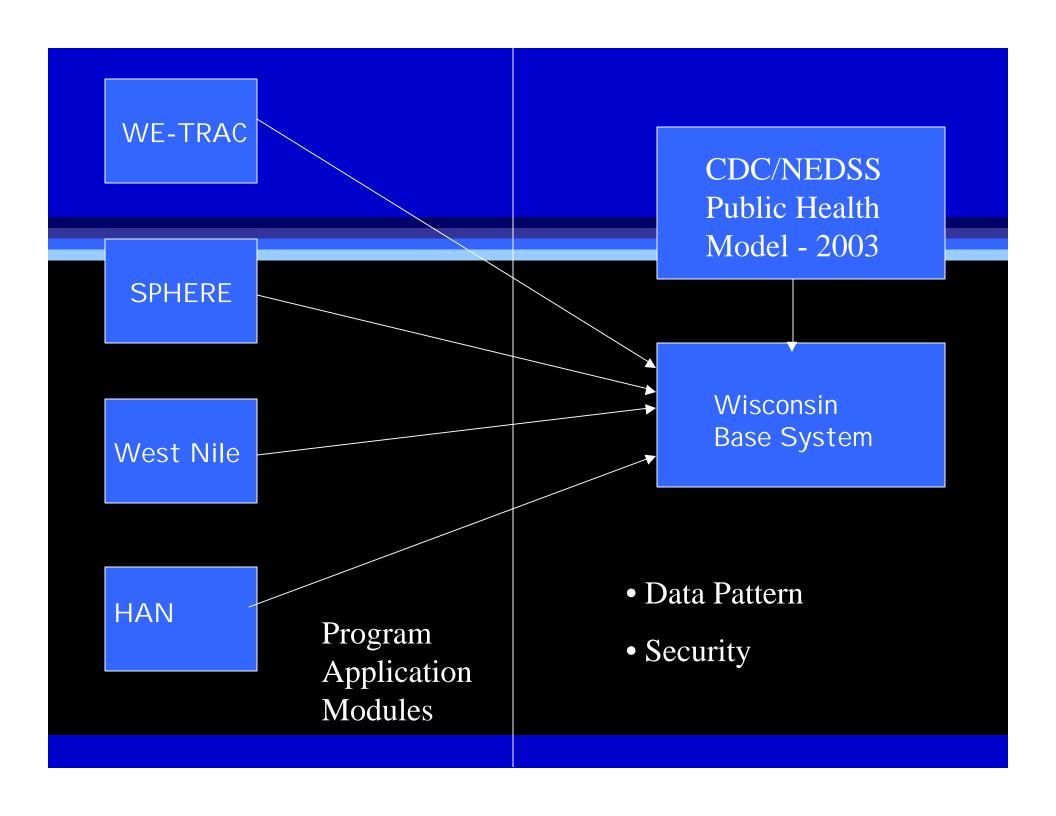
### SPHERE helps to document/provide measurements related to:

- DPH Contract Objectives
- Healthiest Wisconsin 2010
  - Health & Infrastructure Priorities
- Broader organizational objectives

### SPHERE Developed by UW DoIT

University of Wisconsin Department of Information Technology

- HAN (Health Alert Network)
- CDC NEDSS Base System (Data Model)
- PHI N



### HAN is the portal for SPHERE https://www.han.wisc.edu

- All HAN users will not have access to SPHERE
- SPHERE access is granted by the State & Local Organization Administrator(s)

### Security and Confidentiality is a High Priority

- DolT Security
- Security and Confidentiality Policy (includes HIPAA Language)
- All organizations have a Local Organization Administrator
- All user's have a signed agreement
- Role Based Security within the organization

## SPHERE Role Based Security Detail

- Individual/Household demographic data (non health) belongs to SPHERE statewide database
- Individual/Household demographic data (health) belongs to SPHERE local database
- Individual/HH, Community & System activities and interventions belong to SPHERE local database

#### SPHERE Framework

- SPHERE Uses the "Intervention Model" as the Framework for the System
- This model defines the scope of public health practice by:
  - Level of practice
  - Type of intervention

### SPHERE Documents and Evaluates Public Health Activities:

- Using the following levels of practice:
  - Individual/Household (demographics & activities)
  - Community (activities)
  - System (activities)
- Utilizing 18 interventions

### **SPHERE Activities**



### Levels of Practice

- Individual/Household activities change knowledge, attitudes, beliefs, practices, and behaviors of individuals and households
- Community activities change community norms, attitudes, awareness, practices, and behaviors
- System activities change organizations, policies, laws, and power structures

#### SPHERE Statewide Database

- Required client demographics (non health)
  - First and Last Name
  - Ethnicity/Race
  - Date of Birth
- Other client demographics (non health)
  - Includes some privacy information
- NO client health information is maintained in the statewide database

### **Local Organization Database**

- Client Health Demographics
  - Health Information
  - Health Needs
- Individual/Household Activity and Interventions
  - Further protected by role based security
- Community and System Activity and Interventions

#### Interventions

Actions taken on behalf of individuals, families, systems, and communities to improve or protect health status

## Activities defined by 18 Public Health Interventions (Minnesota Model)

- Surveillance
- Disease Investigation
- Outreach
- Case Finding
- Screening
- Delegated Function
- Referral/Follow-up
- Case Management
- Health Teaching

- Counseling
- Consultation
- Collaboration
- Coalition Building
- Community Organizing
- Advocacy
- Social Marketing
- Policy Development
- Policy Enforcement

### **Subinterventions**

 Are specific areas/topics that are connected to each intervention

 Some subinterventions include more specific detailed screens

#### **SPHERE Enhancements**

- Birth Records January
- Medicaid Billing define requirements in Discovery Report
- Additional detail screens
- Reports standard and ad hoc reporting